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11
12 UNITED STATES DISTRICT COURT
13 CENTRAL DISTRICT OF CALIFORNIA
14 SOUTHERN DIVISION

15 POLARIS POWERLED
16 TECHNOLOGIES, LLC

17 Plaintiff,

18 v.

19 VIZIO, INC.

20 Defendant.

Case No. 8:18-cv-01571-JVS-DFM

**DEFENDANT VIZIO, INC.'S
RESPONSIVE SUPPLEMENTAL
CLAIM CONSTRUCTION BRIEF
REGARDING "CONFIGURED TO"
TERMS**

1 Polaris’s proposed construction attempts to broaden the meaning of “first
2 input configured to” and “second input configured to,” to include implementations
3 in either hardware or software, without intrinsic support. Polaris seeks to use the
4 claim construction process as an opportunity to broaden the scope of the claim in a
5 manner inconsistent with the intrinsic evidence and entirely separated from the
6 context in which those terms are disclosed. For the term “multiplier configured to”
7 which is not at issue here, the patent specification expressly and precisely states that
8 the multiplier was able to perform certain actions via “hardware or software.” *See*,
9 *e.g.*, Ex. A (’117 patent) at 5:37-38 (“The multiplier circuit 106 ***can be implemented***
10 ***using software algorithm or using analog/mixed-signal circuitry.***”) (emphasis
11 added). For the two terms at issue here, however, the patent specification did not
12 use this same precision, and in fact expressly omits that the “first input” and “second
13 input” were capable of performing their functionality in either “hardware or
14 software.”

15 It is not a mistake or accidental omission that the patent specification lacks
16 support for a software implementation of the “first input” or “second input.” The
17 specification describes hardware—not software—implementations to provide the
18 function of the “first input” and “second input” at length; it describes arrangements
19 of resistors, diodes, buffer circuits, clamps, semiconductor switches, and amplifiers
20 to achieve the claimed functions for the “first input” and the “second input.” *See*,
21 *e.g.*, Ex. A at 2:54-4:4; 6:33-7:2; Figs. 1, 2, 4-6, 8, 9. The specification does not
22 however disclose corresponding software implementations for the “first input” or
23 “second input.”

24 First, Polaris’s attempt to broaden its claims by adding software functionality
25 lacks intrinsic support, and would run afoul of the enablement and written
26 description standards set forth by 35 U.S.C. §112. *See Wang Labs., Inc. v. Am.*
27 *Online, Inc.*, 197 F.3d 1377, 1382–83 (Fed. Cir. 1999) (rejecting patentee’s
28 proposed construction because “although [it] is correct that a claim is not invalid

1 simply because it embraces subject matter that is not specifically illustrated, in order
 2 to be covered by the claims that subject matter must be sufficiently described as the
 3 applicant's invention to meet the requirements of section 112.'). *Genentech, Inc. v.*
 4 *Novo Nordisk A/S*, 108 F.3d 1361, 1365 (Fed. Cir. 1997) ("To be enabling, the
 5 specification of a patent must teach those skilled in the art how to make and use the
 6 full scope of the claimed invention without 'undue experimentation.'") (quoting *In*
 7 *re Wright*, 999 F.2d 1557, 1561 (Fed. Cir. 1993)); *In re Fisher*, 427 F.2d 833, 839
 8 (1970) ("[T]he scope of the claims must bear a reasonable correlation to the scope of
 9 enablement provided by the specification to persons of ordinary skill in the art.').
 10 Polaris does not explain at all how its proposed construction could be applied to
 11 these specific limitations in a way that would be supported by the specification or
 12 enabled.

13 Second, Polaris's contention that "[i]t was well-known in the art at the time of
 14 the '117 patent filing that a 'digital word' is part of the compiled software running
 15 on a processor" is inapposite. While Polaris "cherry-picks" certain unrelated patents
 16 and submits an expert declaration, other extrinsic evidence not cited by Polaris
 17 refers to a "digital word" specifically in the hardware context, such as applied to
 18 digital-to-analog converters. *See, e.g.*, Ex. B (U.S. Patent No. 4,539,553) at 1:14-22
 19 ("In known digital-to-analog converters of the current-adding kind specifically
 20 intended to convert a binary-coded digital signal to an analog signal, **when the**
 21 **number of bits in the input binary word is increased, the number of elements in**
 22 **the digital-to-analog converter** must be greatly increased."); Ex. C (U.S. Patent No.
 23 6,522,277) at 2:11-15 ("For example, a multi-bit quantizer can use a high-speed
 24 flash converter that assigns one comparator for each possible level. **The**
 25 **comparator outputs are encoded into an appropriate binary word representative of**
 26 **a multi-bit digital signal**. Thus, instead of having a one-bit output, a multi-bit
 27 quantizer produces numerous bits forwarded in parallel across corresponding
 28 conductors of a multi-conductor bus.") (emphases added).

1 Polaris’s reliance on the patent specification is similarly unavailing. For
 2 example, Polaris points to instances where the specification (and dependent claim
 3 12) equate a user preference with a “digital signal,” “binary word,” or “digital
 4 word.” Polaris Supp. Br. at 3-4. But this language in the abstract does not support
 5 Polaris’s construction that the “first input” can be “implemented in software” to
 6 receive a user signal. As discussed above, a digital signal can be simply converted
 7 to analog in hardware by, *e.g.*, a digital-to-analog converter.

8 Polaris also points to Figure 9, arguing that the presence of a binary user input
 9 means the first input must be implemented software. *See* Polaris Supp. Br. at 4-5.
 10 But again, the mere presence of a binary input does not require software, as the
 11 digital-to-analog converter (“DAC”) in Figure 9 converts the digital signal to analog
 12 using hardware components. Indeed, it was well-known at the time of the ’117
 13 patent filing that using a “binary input signal” with a DAC was a hardware
 14 concept—not a software one. *See, e.g.*, Ex. D (U.S. Patent No. 3,668,562) at
 15 Abstract (“The frequency selecting *circuit is operated by a binary input signal* and
 16 controls the frequency of the *output signal produced by the digital to analog*
 17 *converter.*”); Ex. E (U.S. Patent No. 3,474,440) at 1:15-20 (“There are n differential
 18 amplifiers, one for each bit of the digital input signal, cascaded to divide the
 19 constant current I into the binary components $I/1$, $I/2$, $I/3$, etc. *These current*
 20 *components are then selected by the diode switches, which are energized by the*
 21 *binary input signal.*”); Ex. F (U.S. Patent No. 3,588,882) (“*As the binary number*
 22 *input signal increases, the operation of the circuit of FIG. 1* is repeated for each
 23 repetition of an increase of 3l (LSB) in the binary input signal. The largest error that
 24 will result will be an eight least significant digit error. If *conventional digital-to-*
 25 *analog converter techniques* are used, larger errors could result.”) (emphases
 26 added).

27 Polaris is asking this Court to construe “configured to” with essentially no
 28 bounds. That is not consistent with the law. *Phillips v. AWH Corp.*, 415 F.3d 1303,

1 1318-19 (Fed. Cir. 2005) (“[T]here is a virtually unbounded universe of potential
2 extrinsic evidence of some marginal relevance that could be brought to bear on any
3 claim construction question . . .”). Rather, the Court should construe the term “first
4 input configured to” in accordance with its plain and ordinary meaning. The Federal
5 Circuit has long held that “claim terms take on their ordinary and accustomed
6 meanings unless the patentee demonstrated an intent to deviate from the ordinary
7 and accustomed meaning of a claim term by redefining the term or by characterizing
8 the invention in the intrinsic record using words or expressions of manifest
9 exclusion or restriction, representing a clear disavowal of claim scope.” *Teleflex,*
10 *Inc. v. Ficosa N. Am. Corp.*, 299 F.3d 1313, 1324 (Fed. Cir. 2002). No such intent
11 has been shown here.

12 Similarly, a “second input configured to receive a selection signal to
13 selectively operate the brightness control circuit in an auto mode or a manual
14 model” should be also construed based on its plain and ordinary meaning. Polaris
15 argues that this phrase should expressly entail hardware or software
16 implementations because the specification purportedly equates this phrase to an
17 “enable signal,” which Polaris contends would “encompass both hardware and
18 software signals.” Polaris Supp. Br. at 6-7. But Polaris again stretches the bounds
19 of the specification and ignores the plain language of the claim, which merely
20 recites that the user selects an “auto mode” or a “manual mode.” Making a selection
21 between one of two operating modes requires nothing more than a binary selection,
22 not implementation in software.

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